

PALM INTRANET

Day: Monday Date: 7/30/2007 Time: 11:17:47

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name. Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	First Name			
Zeng	Xian-Ming	Search		

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page

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<u>L6</u>

<u>L5</u>

<u>L4</u>

<u>L3</u>

<u>L2</u>

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Freeform Search

	Database:	US Patents Full- US OCR Full-Te EPO Abstracts D JPO Abstracts D Derwent World F	xt Database Database Patabase	atabase			
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((carrier or excipient) near8 (VMD or "volume median diameter"))

((Xian near Ming) near Zeng) AND @pd>20061030

L2 and ((carrier or excipient) near8 (VMD or "volume median diameter"))

END OF SEARCH HISTORY

L5 NOT L3

L4 and @ad<20020821

DB=PGPB, USPT; PLUR=YES; OP=OR

(424/46 or 424/489).ccls.

<u>L6</u>

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(FILE 'HOME' ENTERED AT 11:45:49 ON 30 JUL 2007)

	FILE			JS, MEDLINE, USPATFULL, BIOSIS, EMBASE' ENTERED AT 11:46:19 ON
L1 L2			48	S ((CARRIER OR EXCIPIENT OR LACTOSE) (8A) (VMD OR (VOLUME(W)MED S L1 (S) (DPI OR (DRY(W)POWDER(W)INHALER) OR INHALA? OR RESPIRA
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L4			_	S L1 AND (MEDICAMENT OR DRUG OR ACTIVE OR BRONCHODILATOR OR FOR
L5			10	DUPLICATE REMOVE L4 (3 DUPLICATES REMOVED)
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L1	4		48	SEA ((CARRIER OR EXCIPIENT OR LACTOSE) (8A) (VMD OR (VOLUME(W)
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L1			48	SEA ((CARRIER OR EXCIPIENT OR LACTOSE) (8A) (VMD OR (VOLUME(W) MEDIAN(W) DIAMETER)))
L2			4	SEA L1 (S) (DPI OR (DRY(W) POWDER(W) INHALER) OR INHALA? OR
			_	RESPIRA?)
=> d	que	L4		
L1			48	SEA ((CARRIER OR EXCIPIENT OR LACTOSE) (8A) (VMD OR (VOLUME(W)
				MEDIAN(W) DIAMETER)))
L4			13	SEA L1 AND (MEDICAMENT OR DRUG OR ACTIVE OR BRONCHODILATOR OR FORMOTEROL OR BUDESONIDE)

ANSWER 1 OF 4 USPATFULL on STN L3

Inhalation compositions with high drug ratios TI

The invention provides a dry powder inhalation composition comprising, AB at least 0.25% by weight of the composition of an active ingredient with a particle size of less than 10 microns in diameter and a pharmaceutically acceptable particulate carrier with a particle size of less than 250 microns in diameter. Also disclosed are methods for use of the compositions of the invention with dry powder inhalers for therapeutic treatments.

2006:340303 USPATFULL ACCESSION NUMBER:

Inhalation compositions with high drug ratios TITLE:

INVENTOR(S): Zeng, Xian-Ming, Mitcham, UNITED KINGDOM

NUMBER KIND DATE _______ US 2006292083 Al 20061228 PATENT INFORMATION: APPLICATION INFO.: US 2003-646362 A1 20030821 (10)

> NUMBER DATE ______

GB 2002-19512 20020821 PRIORITY INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: IVAX CORPORATION, 4400 Biscayne Boulevard, Miami, FL,

33137, US

NUMBER OF CLAIMS: 10 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 471

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

Inhalation composition comprising formoterol and lactose TI

The invention provides a dry powder inhalation composition comprising AB medicament particles and a mixture of lactose particles with a VMD of between about 70 and about 120 μ and a diameter of less than 250 μ , the mixture being characterized in that up to 96% by weight of the lactose particles are less than 150 $\boldsymbol{\mu}$ in diameter and wherein up to 25% by weight of the lactose particles are less than 5 $\boldsymbol{\mu}$ in diameter. The compns. provide for a more accurate, uniform and consistent dispersion when used with, for example, a multidose dry powder inhaler. Particle size distribution, dose delivery, and fine particle fractions for a

formoterol-lactose blend was given in an example.

2004:182664 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 140:205170

Inhalation composition comprising formoterol and TITLE:

lactose

Zeng, Xian-Ming INVENTOR(S):

Ivax Corporation, USA; Norton Healthcare Ltd. PATENT ASSIGNEE(S):

PCT Int. Appl., 23 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PRIORITY APPLN. INFO.:
                                               GB 2002-19514
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                                               GB 2002-19511
                                               WO 2003-US26385
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- L3 ANSWER 3 OF 4 USPATFULL on STN
- TI Inhalation compositions

The invention provides a dry powder inhalation composition comprising medicament particles and a mixture of lactose particles with a VMD of between about 70 and about 120 microns and a diameter of less than 250 microns, the mixture being characterized in that up to 96% by weight of the lactose particles are less than 150 microns in diameter and wherein up to 25% by weight of the lactose particles are less than 5 microns in diameter. The compositions provide for a more accurate, uniform and consistent dispersion when used with, for example, a multidose dry powder inhaler

. Also disclosed are methods for use of the compositions of the invention.

ACCESSION NUMBER:

2004:326807 USPATFULL Inhalation compositions

TITLE: INVENTOR(S):

Zeng, Xian-Ming, Mitcham, UNITED KINGDOM

	NUMBER	KIND	DATE	
PATENT INFORMATION: APPLICATION INFO.:	US 2004258626 US 2003-646361	Al Al	20041223 20030821	(10)

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

IVAX CORPORATION, 4400 Biscayne Boulevard, Miami, FL,

33137

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

12

NUMBER OF DRAWINGS:

3 Drawing Page(s)

LINE COUNT:

569

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

- L3 ANSWER 4 OF 4 USPATFULL on STN
- TI Method for pulmonary and oral delivery of pharmaceuticals

In a powder formulation for use in a dry powder inhaler, a AB pharmaceutical acts as its own carrier, so that use of lactose or other excipients are not needed. The dry powder formulation has a single active pharmaceutical compound having two major populations in particle size distribution: microfine particles of the active pharmaceutical, of 1-10 microns in diameter, and larger carrier particles, also of the active pharmaceutical compound. The carrier particles provide a long acting, delayed onset, and optionally therapeutic effect via the GI tract, while the microfine particles provide a fast onset effect via the lung.

ACCESSION NUMBER: 2001:205432 USPATFULL

Method for pulmonary and oral delivery of TITLE:

pharmaceuticals

INVENTOR(S): Ward, Gary, San Diego, CA, United States

Schultz, Robert, San Diego, CA, United States

Dura Pharmaceuticals, Inc. (U.S. corporation) PATENT ASSIGNEE(S):

KIND NUMBER DATE -----PATENT INFORMATION: US 2001041190 A1 20011115 US 6616914 B2 20030909 APPLICATION INFO.: US 2001-907393 A1 20010717

(9)

RELATED APPLN. INFO.: Division of Ser. No. US 2000-480549, filed on 10 Jan

2000, UNKNOWN

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LYON & LYON LLP, 633 WEST FIFTH STREET, SUITE 4700, LOS LEGAL REPRESENTATIVE:

ANGELES, CA, 90071

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1 LINE COUNT: 319

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

- L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
- Agglomerate Strength and Dispersion of Salmeterol Xinafoate from Powder TI Mixtures for Inhalation
- AB The study investigated the role of agglomeration and the effect of fine lactose size on the dispersion of salmeterol xinafoate (SX) from SX-lactose mixts. for inhalation. Particle size distributions were characterized by Malvern Mastersizer S, Aerosizer and Spraytec, and imaging conducted by SEM. Inter-particulate adhesion was quantified by atomic force microscopy. Deposition of SX was measured using a twin stage impinger. SX was analyzed using validated high-performance liquid chromatog. method (r2=1.0, CV=0.4-1.0%). Addition of fine lactose with a vol. median diam. (VMD) of

7.9 μm to a SX- lactose carrier and carrier-free mixture resulted in significantly better dispersion (16.8% for 20% added fine lactose) than fractions with VMD of 3.0, 17.7 and 33.3 μm (less than 9.1% for 20% fine lactose). Using the carrier-free mixts., particle sizing of the aerosol cloud using the Spraytec, coupled with the application of the Aerosizer using differing dispersion energies and SEMs of the samples, indicated that an open packed, agglomerate structure improved SX dispersion. The highest extent of SX dispersion occurred when SX and fine lactose were detached from the surface, usually in the form of loose agglomerates. The outcomes of this research demonstrated how agglomerate structure influenced dispersion and the key role of fine lactose particle size in SX dispersion from mixts. for inhalation.

ACCESSION NUMBER: 2006:1163978 CAPLUS

DOCUMENT NUMBER: 146:32717

TITLE: Agglomerate Strength and Dispersion of Salmeterol

Xinafoate from Powder Mixtures for Inhalation

AUTHOR (S): Adi, Handoko; Larson, Ian; Chiou, Herbert; Young,

Paul; Traini, Daniela; Stewart, Peter

CORPORATE SOURCE: Department of Pharmaceutics, Victorian College of

Pharmacy, Monash University, Parkville, 3052,

Australia

SOURCE: Pharmaceutical Research (2006), 23(11), 2556-2565

CODEN: PHREEB; ISSN: 0724-8741

PUBLISHER: Springer DOCUMENT TYPE: Journal English LANGUAGE:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 15 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 10 USPATFULL on STN L5

Method of preparing dry powder inhalation compositions TI

The invention provides a method of preparing a dry powder inhalation AB composition comprising a pharmaceutically acceptable particulate carrier, a first particulate inhalant medicament and a second particulate inhalant medicament. Also provided are dry powder compositions and methods of using them with a dry powder inhalation device.

2005:182865 USPATFULL ACCESSION NUMBER:

Method of preparing dry powder inhalation compositions TITLE:

Zeng, Xian-Ming, Surrey, UNITED KINGDOM INVENTOR(S):

NUMBER KIND DATE -----US 2005158248 A1 20050721 US 2003-646363 A1 20030821 (10) PATENT INFORMATION: APPLICATION INFO.:

> NUMBER DATE -----

GB 2002-19511 20020821 GB 2002-19513 20020821 PRIORITY INFORMATION:

GB 2002-19513 20020821

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

IVAX CORPORATION, 4400 Biscayne Boulevard, Miami, FL, LEGAL REPRESENTATIVE:

33137, US

NUMBER OF CLAIMS: 15 EXEMPLARY CLAIM: 1 LINE COUNT: 484

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

TI Inhalation composition comprising formoterol and lactose

AB The invention provides a dry powder inhalation composition comprising medicament particles and a mixture of lactose particles with a VMD of between about 70 and about 120 $\boldsymbol{\mu}$ and a diameter of less than 250 μ , the mixture being characterized in that up to 96% by weight of the lactose particles are less than 150 μ in diameter and wherein up to 25% by weight of the lactose particles are less than 5 μ in diameter. The compns. provide for a more accurate, uniform and consistent dispersion when used with, for example, a multidose dry powder inhaler. Particle size distribution, dose delivery, and fine particle fractions for a formoterol-lactose blend was given in an example.

ACCESSION NUMBER: 2004:182664 CAPLUS

DOCUMENT NUMBER: 140:205170

TITLE: Inhalation composition comprising formoterol

and lactose

Zeng, Xian-Ming INVENTOR (S):

PATENT ASSIGNEE(S): Ivax Corporation, USA; Norton Healthcare Ltd.

PCT Int. Appl., 23 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC: NUM. COUNT: 2

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A 20020821 EP 2002-119513 A 20020821 GB 2002-19511 A 20030821 WO 2003-US26385

L5 ANSWER 5 OF 10 USPATFULL on STN

TI Inhalation compositions

The invention provides a dry powder inhalation composition comprising AB medicament particles and a mixture of lactose

particles with a VMD of between about 70 and about 120 microns and a diameter of less than 250 microns, the mixture being characterized in that up to 96% by weight of the lactose particles are less than 150 microns in diameter and wherein up to 25% by weight of the lactose particles are less than 5 microns in diameter. The compositions provide for a more accurate, uniform and consistent dispersion when used with, for example, a multidose dry powder inhaler. Also disclosed are methods for use of the compositions of the invention.

ACCESSION NUMBER:

2004:326807 USPATFULL

TITLE:

Inhalation compositions

INVENTOR (S):

Zeng, Xian-Ming, Mitcham, UNITED KINGDOM

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004258626	A1	20041223	
APPLICATION INFO.:	US 2003-646361	A1	20030821	(10)

NUMBER DATE

PRIORITY INFORMATION:

GB 2002-19513 20020821 20020821

GB 2002-19513

DOCUMENT TYPE:

Utility APPLICATION

FILE SEGMENT: LEGAL REPRESENTATIVE:

IVAX CORPORATION, 4400 Biscayne Boulevard, Miami, FL,

33137 12

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT:

569

CAS INDEXING IS AVAILABLE FOR THIS PATENT.